

AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

D2E133-DM47-C6 ebmpapst Datasheet

sales@fansco.com

www.fansco.com

Nominal data

Type	D2E133-DM47-C6		
Motor	M2E068-DF		
Phase		1~	1~
Nominal voltage	VAC	230	230
Frequency	Hz	50	60
Method of obtaining data		fa	fa
Valid for approval/standard		-	UL 2111
Speed (rpm)	min ⁻¹	1150	1550
Power consumption	W	190	215
Current draw	A	0.84	0.91
Capacitor	μF	3	3
Capacitor voltage	VDB	450	450
Capacitor standard		S2 (CE)	UL
Min. back pressure	Pa	100	200
Min. back pressure	in. wg	0.4	0.8
Min. ambient temperature	°C	-25	-25
Max. ambient temperature	°C	50	50

ml = Max. load · me = Max. efficiency · fa = Free air · cs = Customer specification · ce = Customer equipment
Subject to change



AC centrifugal fan

forward-curved, dual-intake

with housing (flange)

Technical description

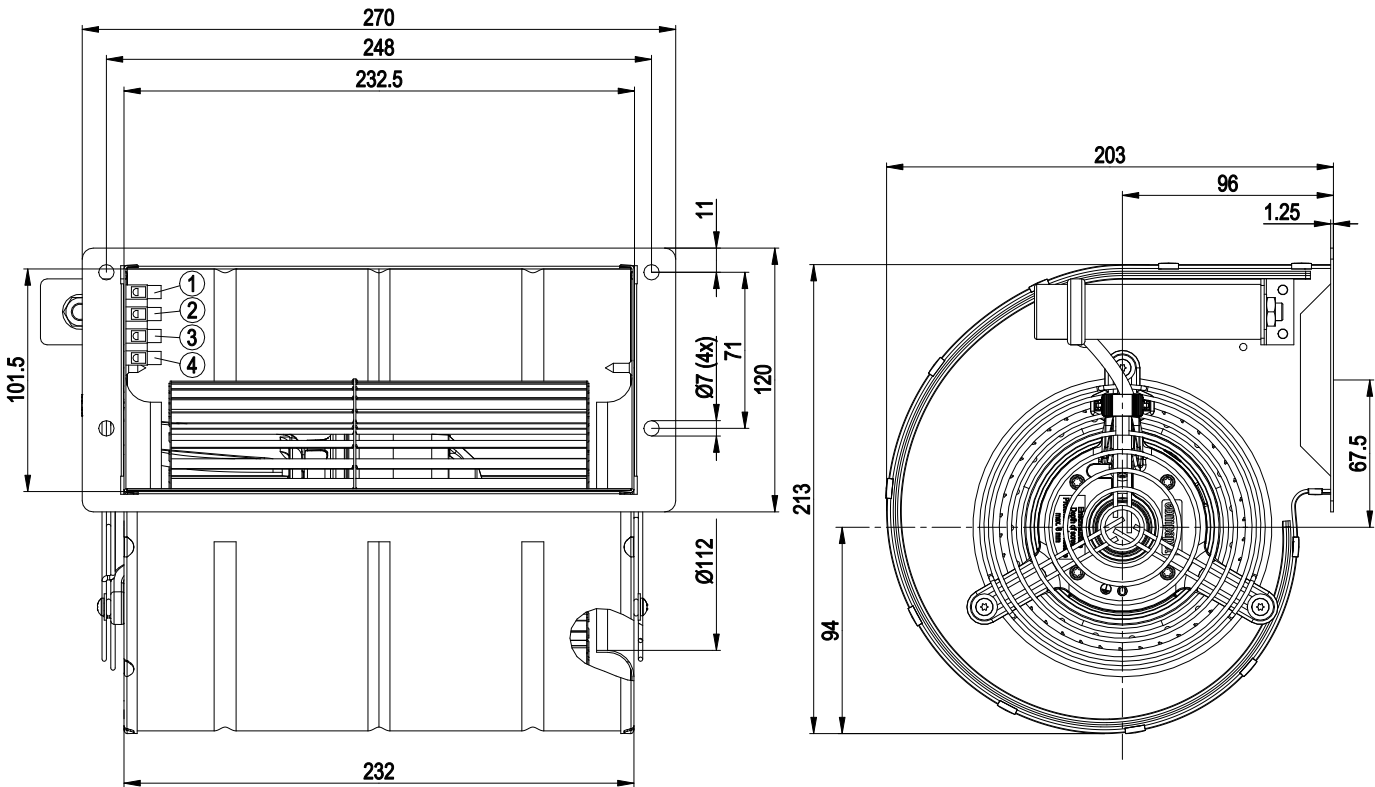
Weight	4.1 kg
Size	133 mm
Motor size	68
Rotor surface	Painted black
Impeller material	Sheet steel, painted black
Housing material	Sheet steel, galvanized
Guard grille material	Steel, galvanized and coated with white-aluminum plastic (RAL 9006)
Motor suspension	Motor mounted with brackets on one side
Direction of rotation	Counterclockwise, viewed toward rotor
Degree of protection	IP44; installation- and position-dependent as per EN 60034-5
Insulation class	"F"
Moisture (F) / Environmental (H) protection class	H1
Max. permitted ambient temp. for motor (transport/storage)	+ 80 °C
Min. permitted ambient temp. for motor (transport/storage)	- 40 °C
Installation position	Shaft horizontal or rotor on bottom; rotor on top on request
Condensation drainage holes	On rotor side
Mode	S1
Motor mounting	Ball bearing
Touch current according to IEC 60990 (measuring circuit Fig. 4, TN system)	< 0.75 mA
Electrical hookup	Via terminal strip, capacitor connected
Motor protection	Thermal overload protector (TOP) internally connected
Protection class	I (with customer connection of protective earth)
Motor capacitor according to EN 60252-1 in safety protection class	S2
Conformity with standards	EN 60335-1
Approval	CSA C22.2 No. 77; CCC; UL 1004-3



AC centrifugal fan

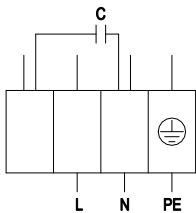
forward-curved, dual-intake
with housing (flange)

Product drawing



1	Z (brown + capacitor)
2	L (blue)
3	N (black + capacitor)
4	PE (green/yellow)

Connection diagram



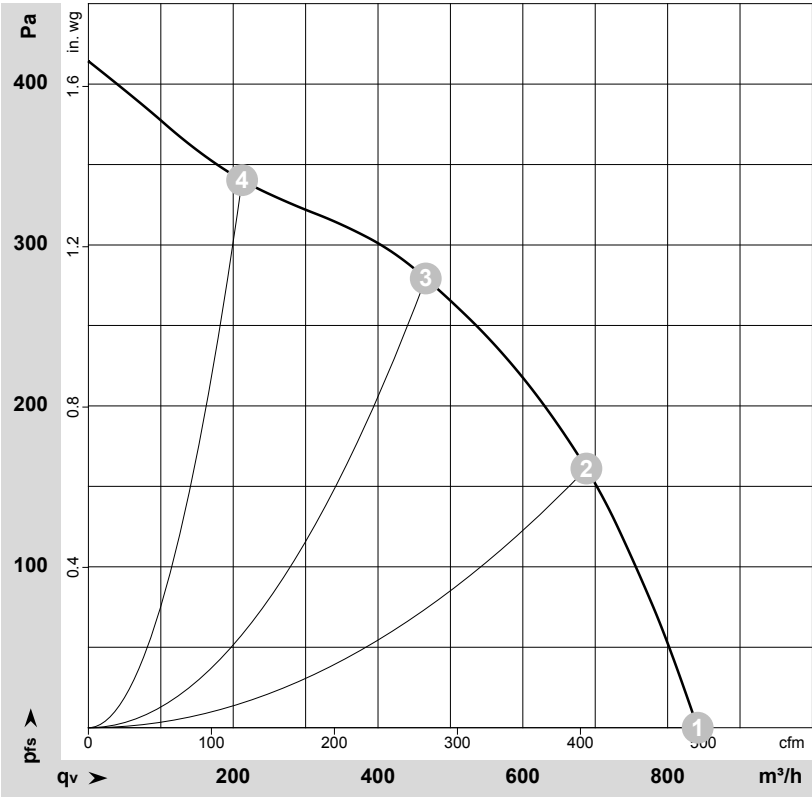
2	L	3	N	4	PE
---	---	---	---	---	----



AC centrifugal fan

forward-curved, dual-intake
with housing (flange)

Curves: Air performance 50 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-105266-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	230	50	1150	190	0.84	840	0	495	0.00
2	1~	230	50	1875	167	0.73	690	160	405	0.64
3	1~	230	50	2330	142	0.62	465	280	275	1.12
4	1~	230	50	2540	124	0.54	210	340	125	1.36

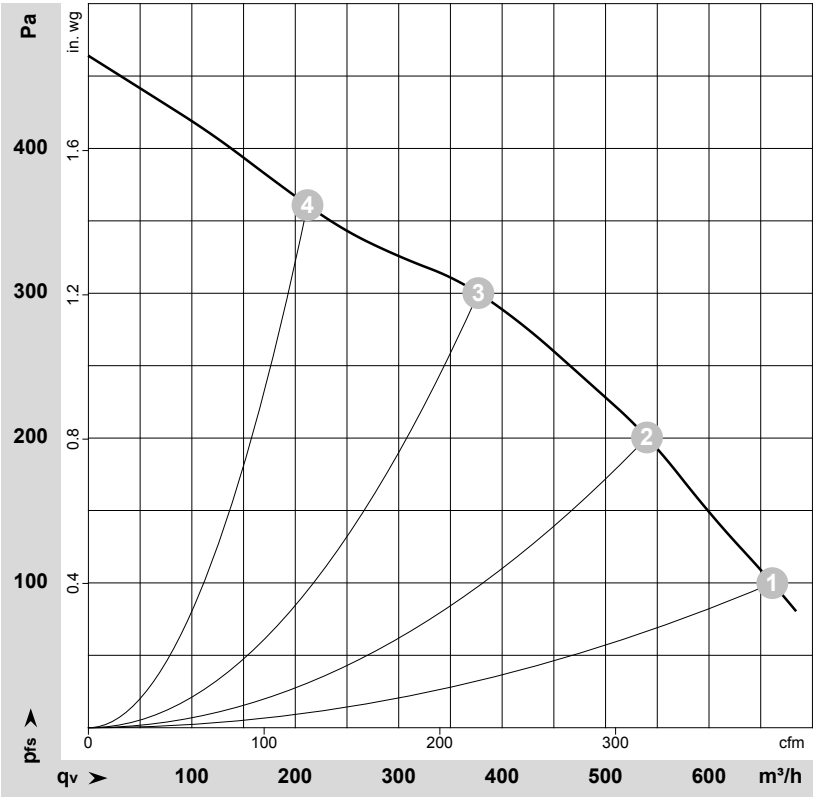
Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase



AC centrifugal fan

forward-curved, dual-intake
with housing (flange)

Curves: Air performance 60 Hz



$\rho = 1.15 \text{ kg/m}^3 \pm 2 \%$

Measurement: LU-105267-1

Air performance measured according to ISO 5801 installation category A. For detailed information on the measurement setup, contact ebm-papst. Intake sound level: Sound power level according to ISO 13347 / sound pressure level measured at 1 m distance from fan axis. The values given are valid under the specified measuring conditions and may vary due to conditions of installation. For deviations from the standard configuration, the parameters have to be checked on the installed unit.

Measured values

	Wired	U	f	n	P _e	I	q _v	p _{fs}	q _v	p _{fs}
		V	Hz	min ⁻¹	W	A	m³/h	Pa	cfm	in. wg
1	1~	230	60	1550	195	0.85	660	100	390	0.40
2	1~	230	60	2000	187	0.81	540	200	320	0.80
3	1~	230	60	2405	180	0.78	375	300	220	1.20
4	1~	230	60	2630	173	0.75	210	360	125	1.45

Wired = Wiring · U = Power supply · f = Frequency · n = Speed (rpm) · P_e = Power consumption · I = Current draw · q_v = Air flow · p_{fs} = Pressure increase

